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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior revisions, and listings, of claims in the

application.

Listing of Claims:

1. (Original) A self closing valve comprising:

a valve body having a flow passage therethrough;

a metal valve seal ring having first and second sealing surfaces disposed within

the valve body about a portion of the flow passage;

a valve member mounted within the flow passage for movement between an open

position and at least one of at least two closed positions, the valve member having a seating

surface for engagement with at least one of the sealing surfaces of the metal valve seal ring in at

least one of the closed positions;

a biasing element associated with the valve member for urging the valve member

toward the closed positions; and

the metal valve seal ring being formed as an annular ring having first and second

annular fingers extending radially inwardly of the flow passage portion to provide first and

second sealing surfaces spaced apart along the longitudinal axis of said portion of flow passage,

the first annular finger being normally inclined toward the second annular finger and the first and

second sealing surfaces each being coined to each provide a surface portion for mating with a

respective portion of the seating surface for selective sealing engagement therewith when the

valve member is in a respective at least one of the closed positions.

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2. (Original) The valve of claim 1 wherein the seating surface of the valve member and

the first sealing surface of the metal valve seal ring are in sealing engagement when force applied

to the valve member is within a first force range.

3. (Original) The valve of claim 2 wherein the seating surface of the valve member and

the first and second sealing surfaces of the metal valve seal ring are in sealing engagement when

the force applied to the valve member is within a second force range at least a portion of which

second force range is different than the first force range.

4. (Original) The valve of claim 1 wherein the first and second annular fingers of the

metal seal ring extend radially inwardly and have a surface on their respective inner end that was

coined by contact with the valve member seating surface.

5. (Original) The valve of claim 4 wherein the incline of the first annular finger of the

metal seal ring was formed by permanently bending the first annular finger toward the second

annular finger.

6. (Original) The valve of claim 1 wherein the incline of the first annular finger of the

metal seal ring was formed by permanently bending the first annular finger toward the second

annular finger.

7. (Original) A self closing valve comprising:

a valve body having flow passage therethrough;

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a metal valve seal ring having first and second sealing surfaces disposed within the valve body about a portion of the flow passage;

a valve member mounted within the flow passage for movement between an open position and at least one of at least two closed positions, the valve member having a seating surface for engagement with at least one of the sealing surfaces of the metal valve seal ring in at least one of the closed positions;

a biasing element associated with the valve member for urging the valve member toward the closed positions; and

the metal valve seal ring being formed as an annular ring having first and second annular fingers extending radially inwardly of the flow passage portion to provide first and second sealing surfaces spaced apart along the longitudinal axis of said portion of the flow passage, the first and second sealing surfaces each being coined to each provide a surface portion for mating with a respective portion of the seating surface for selective sealing engagement therewith when the valve member is in a respective at least one of the closed positions.

8. (Currently Amended) A self closing valve comprising:
a valve body having flow passage therethrough;
a metal valve seal ring having first and second sealing surfaces disposed within
the valve body about a portion of the flow passage;
a valve member mounted within the flow passage for movement between an open
position and at least one of at least two closed positions, the valve member having a seating
surface for engagement with at least one of the sealing surfaces of the metal valve seal ring in at
least one of the closed positions;

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a biasing element associated with the valve member for urging the valve member

toward the closed positions;

the metal valve seal ring being formed as an annular ring having first and second

annular fingers extending radially inwardly of the flow passage portion to provide first and

second sealing surfaces spaced apart along the longitudinal axis of said portion of the flow

passage, the first and second sealing surfaces each being coined to each provide a surface portion

for mating with a respective portion of the seating surface for selective sealing engagement

therewith when the valve member is in a respective at least one of the closed positions; and

The valve of claim 7 wherein the first annular finger of the metal seal ring is resiliently

deformable and is inclined toward the second annular finger.

9. (Currently Amended) The valve of claim 7_8 wherein the seating surface of the

valve member and the first sealing surface of the metal valve seal ring are in sealing engagement

and the seating surface of the valve member and second sealing surface of the metal valve seal

are not in sealing engagement when opening force applied to the valve member is within a first

force range.

10. (Original) The valve of claim 9 wherein the seating surface of the valve member

and the first and second sealing surfaces of the metal valve seal are in sealing engagement when

opening force applied to the valve member is within a second force range, at least a portion of

the second force range is different than the first force range.

11. (Original) A metal valve seal ring for a valve comprising:

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a second sealing surface on the second annular finger;

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an annular ring having first and second annular fingers extending radially inwardly from an outer perimeter to provide a first sealing surface on the first annular finger and

the first annular finger being resiliently deformable within its range of movement in a valve and inclined toward the second annular finger; and

the first and second sealing surfaces having been formed by coining.

12. (Original) A metal valve seal ring for a valve comprising:

an annular ring having first and second annular fingers extending radially inwardly from an outer perimeter to provide a first sealing surface on the first annular finger and a second sealing surface on the second annular finger; and

the first annular finger being resiliently deformable within its range of movement in a valve and being normally inclined toward the second annular finger.

13. (Original) The metal valve seal ring of claim 12 wherein the first annular finger incline having been formed by bending the first annular finger.

14. (Original) A check valve comprising:

a valve body having a flow passage therethrough,

a metal valve seal ring having first and second sealing surfaces disposed within the valve body about a portion of the flow passage;

a valve member mounted within the flow passage for movement between an open position and at least one of at least two closed positions, the valve member having a seating

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surface for engagement with at least one of the sealing surfaces of the metal valve seal ring in at

least one of the closed positions; and

the metal valve seal ring being formed as an annular ring having first and second

annular fingers extending radially inwardly of the flow passage portion to provide first and

second sealing surfaces spaced apart along the longitudinal axis of said portion of flow passage,

the first annular finger being normally inclined toward the second annular finger and the first and

second sealing surfaces each being coined to each provide a surface portion for mating with a

respective portion of the seating surface for selective sealing engagement therewith when the

valve member is in a respective at least one of the closed positions.

15. (Original) The check valve of claim 14 wherein the seating surface of the valve

member and the first sealing surface of the metal valve seal ring are in sealing engagement when

opening force on the valve member fluid pressure is relatively low.

16. (Original) The check valve of claim 15 wherein the seating surface of the valve

member and the first and second sealing surfaces of the metal valve seal ring are in sealing

engagement when opening force on the valve member is relatively high.

17. (Original) A check valve comprising:

a valve body having a flow passage therethrough,

a metal valve seal ring having first and second sealing surfaces disposed within

the valve body about a portion of the flow passage;

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a valve member mounted within the flow passage for movement between an open position and at least one of at least two closed positions, the valve member having a seating surface for engagement with at least one of the sealing surfaces of the metal valve seal ring in at least one of the closed positions; and

the metal valve seal ring being formed as an annular ring having first and second annular fingers extending radially inwardly of the flow passage portion to provide first and second sealing surfaces spaced apart along the longitudinal axis of said portion of the flow passage, the first and second sealing surfaces each being coined to each provide a surface portion for mating with a respective portion of the seating surface for selective seating engagement therewith when the valve member is in a respective at least one of the closed positions.

18. (Currently Amended) A check valve comprising:

a valve body having a flow passage therethrough,

a metal valve seal ring having first and second sealing surfaces disposed within

the valve body about a portion of the flow passage;

a valve member mounted within the flow passage for movement between an open position and at least one of at least two closed positions, the valve member having a seating surface for engagement with at least one of the sealing surfaces of the metal valve seal ring in at least one of the closed positions;

the metal valve seal ring being formed as an annular ring having first and second annular fingers extending radially inwardly of the flow passage portion to provide first and second sealing surfaces spaced apart along the longitudinal axis of said portion of the flow passage, the first and second sealing surfaces each being coined to each provide a surface portion for mating

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with a respective portion of the seating surface for selective seating engagement therewith when

the valve member is in a respective at least one of the closed positions; and

The check valve of claim 17 wherein the first annular finger of the metal seal ring is resiliently

deformable and is inclined toward the second annular finger.

19. (Currently Amended) The check valve of claim 178 wherein the seating surface of

the valve member and the first sealing surface of the metal valve seal ring are in sealing

engagement when opening force on the valve member is relatively low.

20. (Original) The check valve of claim 19 wherein the seating surface of the valve

member and the first and second sealing surfaces of the metal valve seal ring are in sealing

engagement when opening force on the valve member is relatively high.

21. (Original) A relief valve comprising:

a valve body having a flow passage therethrough;

a metal valve seal ring having first and second sealing surfaces disposed within the valve body

about a portion of the flow passage;

a valve member mounted within the flow passage for movement between an open

position and at least one of two closed positions, the valve member having a seating surface for

engagement with at least one of the sealing surfaces of the metal valve seal ring in at least one of

the closed positions;

a spring associated with the valve member for urging the valve member toward

the closed positions; and

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the metal valve seal ring being formed as an annular ring having first and second annular fingers extending radially inwardly of the flow passage portion to provide first and second sealing surfaces spaced apart along the longitudinal axis of said portion of the flow passage, the first and second sealing surfaces each being coined to each provide a surface portion mating with a respective portion of the seating surface for selective seating engagement therewith when the valve member is in a respective at least one of the closed positions.

22. (Currently Amended) A relief valve comprising:

a valve body having a flow passage therethrough;

a metal valve seal ring having first and second sealing surfaces disposed within the valve body about a portion of the flow passage;

a valve member mounted within the flow passage for movement between an open

position and at least one of two closed positions, the valve member having a seating surface for engagement with at least one of the sealing surfaces of the metal valve seal ring in at least one of the closed positions;

a spring associated with the valve member for urging the valve member toward the closed positions;

the metal valve seal ring being formed as an annular ring having first and second annular fingers extending radially inwardly of the flow passage portion to provide first and second sealing surfaces spaced apart along the longitudinal axis of said portion of the flow passage, the first and second sealing surfaces each being coined to each provide a surface portion mating with a respective portion of the seating surface for selective seating engagement therewith when the valve member is in a respective at least one of the closed positions: and

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The relief valve of claim 21 wherein the first annular finger of the metal valve seal ring is

resiliently deformable and is normally inclined toward the second annular finger.

23. (Original) The relief valve of claim 22 wherein the seating surface of the valve

member and the first sealing surface of the metal valve seal ring are in sealing engagement when

opening force on the valve member is within a first force range.

24. (Original) The relief valve of claim 23 wherein the seating surface of the valve

member and the first and second sealing surfaces of the metal valve seal ring are in sealing

engagement when opening force on the valve member is within a second force range at least a

portion of the second force range is greater than the first force range.

25. (Original) A self closing valve comprising:

a valve body having a flow passage therethrough;

a metal valve seal ring having first and second sealing surfaces disposed within

the valve body about a portion of the flow passage;

a valve member mounted within the flow passage for movement between an open

position and at least one of at least two closed positions, the valve member having a seating

surface for engagement with at least one of the sealing surfaces of the metal valve seal ring in at

least one of the closed positions;

a biasing element associated with the valve member for urging the valve member

toward the closed positions; and

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the metal valve seal ring being formed as an annular ring having first and second

annular fingers extending radially inwardly of the flow passage portion to provide first and

second sealing surfaces spaced apart along the longitudinal axis of said portion of flow passage,

the first annular finger being normally inclined toward the second annular finger and the first and

second sealing surfaces each providing a surface portion for mating with a respective portion of

the seating surface for selective sealing engagement therewith when the valve member is in a

respective at least one of the closed positions.

26. (Original) The valve of claim 25 wherein the first annular finger is inclined at a

normal angle of incline of at least about 5°.

27. (Original) The valve of claim 26 wherein the normal angle of incline is at least

about 10°.

28. (Original) The valve of claim 25 wherein the first and second annular fingers of the

metal seal ring extend radially inwardly and have a surface on their respective inner end that was

coined by contact with the valve member seating surface.

29. (Original) The valve of claim 28 wherein the incline of the first annular finger of

the metal seal ring was formed by permanently bending the first annular finger toward the

second annular finger.

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30. (Original) The valve of claim 25 wherein the incline of the first annular finger of the metal seal ring was formed by permanently bending the first annular finger toward the second annular finger.